

[Insert title of invention]Load Cell Having Improved Linearity and Temperature Transient Behavior

Abstract

A new load cell design that is a combination of the column cell and proving ring designs while having the best features of both. The proving ring geometry is used to boost the transverse gage output giving tension and compression strain measurements that are more equal than in a column cell, while the gage placement is the same as a typical column cell, giving a superior temperature transient behavior. The device retains the high stiffness characteristics of column cells.